

Entry 6 of 13

File:DERWENT

March 23, 1999

DERWENT-ACC-NO: 1994-121371

DERWENT-WEEK: 199415

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TITLE:

Anti-reflection layer of good chemical durability and rapid mfr. - has two or more layers obtd. by reactive DC sputtering from target of zirconium@ and silicon@ in atmos contg. argon, oxygen and nitrogen

PATENT-ASSIGNEE: ASAHI GLASS CO LTD[ASAG]

PRIORITY-DATA: 1992JP-0026190 (January 17, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 06067019 A	March 11, 1994	N/A	005	G02B 005/28

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP06067019A	N/A	1992JP-0026190	January 17, 1992

IPC: G02B001/10; G02B005/28

ABSTRACTED-PUB-NO:JP06067019A

BASIC-ABSTRACT:Reactive dc. sputtering from a target consisting of Zr and Si in an atmos. contg. argon, oxygen and nitrogen, is used to obtain an antireflection coat comprising two or more layers. One layer at least consists of oxide or oxynitride contg. Zr and Si, otherwise, all layers may contain Zr and Si, in the forms of transparent oxide, oxynitride and/or nitride. ADVANTAGE - Good chemical durability and rapid mfr., as well as good abrasion resistance are obtd. In an example, soda-lime glass plate was set in a sputtering appts. contg. a target of ZrSi9 compsn. and reactive sputtering was effected. With a flow ratio of Ar : O2 : N2 at 1 : 0.28 : 0.72, a 825 Angstrom thick film of refractive index 1.70 was formed. Then at a ratio 1 : 0 : 1 a 1250 Angstroms thick layer of refractive index 2.20 was formed. finally a 825 Angstroms thick layer of refractive index 1.50 was formed at a ratio 1 : 1 : 0.

CHOSEN-DRAWING:Dwg.0/0

TITLE-TERMS:

ANTI REFLECT LAYER CHEMICAL DURABLE RAPID MANUFACTURE TWO MORE LAYER OBTAIN REACT DC SPUTTER TARGET ZIRCONIUM@ SILICON@ ATMOSPHERE CONTAIN ARGON OXYGEN NITROGEN

DERWENT-CLASS: L01 M13 P81 X25

CPI-CODES: L01-G04D; M13-G;

EPI-CODES: X25-A04;

SECONDARY-ACC-NO:

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